

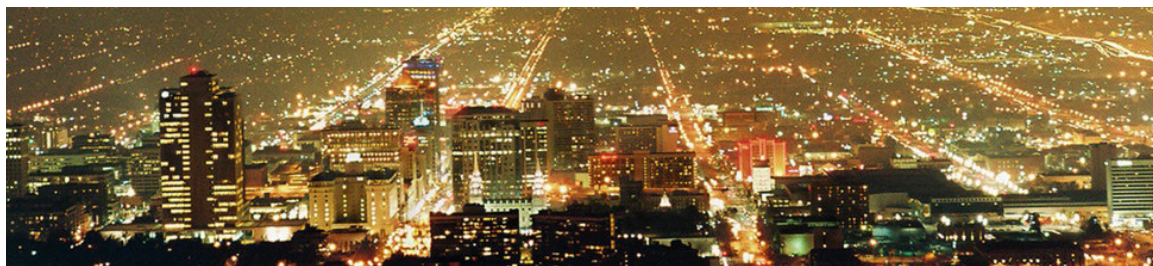
# UTAH GOVERNOR'S **ENERGY**



## DEVELOPMENT SUMMIT 2014

**June 3 - 4, 2014**

*Salt Palace Convention Center, Salt Lake City*



ORGANIZED AND PRODUCED BY



UTAH OFFICE OF  
**ENERGY DEVELOPMENT**  
*Advancing Utah's Energy Future*

UTAH MEDIA**One** GROUP

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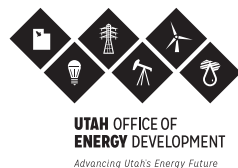


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**Governor Gary R. Herbert**

State of Utah

## GREETINGS,

I am pleased to welcome you to the third annual Governor's Energy Development Summit. This conference provides a quality forum to identify and discuss our shared energy objectives and opportunities.

At the beginning of my administration, I identified energy as one of the four cornerstones of Utah's economic prosperity. In keeping with this focus, I created the 10-Year Strategic Energy Plan and the Office of Energy Development. These initiatives provide essential tools for companies and communities that are leading the way in the responsible development of Utah's energy resources.

Our state boasts a tremendous variety of energy resources, positioning us well for continued economic growth. Also, Utah residents and businesses enjoy some of the lowest energy costs in the country. Combined, these factors help our industry and state economy thrive, attracting additional companies and jobs to Utah and strengthening our standing as the nation's best state for business.

I am confident that by coming together to plan Utah's energy future, we can bolster Utah's position as one of the energy leaders in the United States and ensure bright prospects for our economy and environment, while at the same time advancing energy independence, both regionally and nationally.

Sincerely,

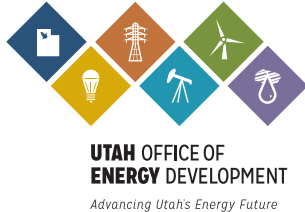
A handwritten signature in black ink that reads "Gary R. Herbert". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Gary R. Herbert

Governor







## DEAR SUMMIT PARTICIPANTS,

As Energy Advisor to Governor Gary R. Herbert, I am excited to welcome you back for our third annual Utah Governor's Energy Development Summit.

Governor Herbert's 10-Year Strategic Energy Plan provides Utah's energy advocates with an important roadmap that addresses reliability, affordability, diversity, and sustainability, and this summit has been crafted to explore those broad goals within the context of economic development.

Given Utah's near-endless supplies of fossil and renewable resources, as well as energy conservation opportunities, we can expect a very promising energy future; however, complacency is not an option. In order to retain its position as a leader on the energy front, Utah must cultivate energy education, advance thoughtful energy policies, incent responsible development activities, and recruit those companies that represent the technologies and opportunities of the future. This Energy Summit is demonstrative of the proactive approach to energy development that I have just described, and it will be a critical forum through which industry, government, and other stakeholders will address the state's most consequential energy issues.

I would like to commend the Office of Energy Development for its tireless efforts organizing this event. As an office whose mission is to provide leadership in the balanced development of all Utah's energy resources, the Governor's Energy Development Summit is a step in the right direction. Whatever your particular interest in Utah's energy landscape may be, today's event will offer you valuable networking opportunities, project updates, and policy insights, and I sincerely welcome your attendance and participation.

Regards,

Cody Stewart

Energy Advisor

# SCHEDULE AT A GLANCE

## JUNE 3

4:00 to 6:00 p.m. SUMMIT KICK-OFF RECEPTION/TRADESHOW

## JUNE 4

7am - 8am	Registration Check-In and Continental Breakfast				
8am - 9am	Breakfast Plenary Session with Governor Gary R. Herbert				
9am - 10am	HOT TOPICS SESSIONS	CONVENTIONAL	UNCONVENTIONAL	RENEWABLE	EFFICIENCY
		Expediting Oil & Gas Development in Western States	Nuclear Energy's Role in Addressing the Challenges of the 21st Century	Developments in Utility Solar Business Models	The Changing Face of Transportation
10am - 10:30am	Tradeshow/Networking				
10:30am - 12pm	REGIONAL PARTNER SESSIONS	CONVENTIONAL	UNCONVENTIONAL	RENEWABLE	EFFICIENCY
		Energy Producing States Coalition: A Unified Voice to the Federal Government	Endangered Species: The Need for a Collaborative Regional Approach	What's Next for Generation and Transmission in the West	Commercial Property Assessed Clean Energy: Prospects for a New Model in Utah and the West
12pm - 1:30pm	Lunch Plenary Session: Keynote Address, Governor's Excellence in Energy Awards				
1:30pm - 3pm	CONSERVATION SESSIONS	CONVENTIONAL	UNCONVENTIONAL	RENEWABLE	EFFICIENCY
		Public Lands Initiative Update	Optimizing Energy Productivity in Developing Oil Shale and Sand Resources	Large-Scale Solar's Arrival to Southern Utah	Energy Efficiency & Conservation Planning: A Regional Perspective
3pm - 3:30pm	Tradeshow/Networking, C-PACE "Meet & Greet" in Title Sponsor Lounge				
3:30pm - 4:30pm	INNOVATION & INFRASTRUCTURE SESSIONS	CONVENTIONAL	UNCONVENTIONAL	RENEWABLE	EFFICIENCY
		Impacts of Greenhouse Gas Regulations on Energy Production	Energy Research Triangle: Connecting Utah's Energy R&D Assets with Utah's Energy Challenges	Utah's Future in Energy Storage	Alternative Transportation and the Road Ahead: A Fleet Perspective
4:30pm	Utah's Own Closing Reception				

# KEYNOTE SPEAKER



KEYNOTE SPEAKER

**TED NORDHAUS**

The Office of Energy Development is pleased to announce that **Ted Nordhaus**, co-founder of **The Breakthrough Institute**, will be the keynote speaker at today's Summit.

Nordhaus is a leading global thinker on energy, climate, security, human development, and politics. His 2004 essay, "**The Death of Environmentalism**," which he authored with co-founder Michael Shellenberger, was featured on the front page of the Sunday **New York Times**, and sparked a national debate. Their 2007 book **Break Through** was called "prescient" by **Time** and "the best thing to happen to environmentalism since Rachel Carson's **Silent Spring**" by **Wired**.

Over the years, Nordhaus and Shellenberger have been profiled in the **New York Times**, **Wired**, the **San Francisco Chronicle**, the **National Review**, **The New Republic**, and on NPR. They have also appeared on **Crossfire** and **The Colbert Report**, as well as more recently in the much-discussed 2013 documentary, "**Pandora's Promise**." In 2007, they received the **Green Book Award** and **Time** magazine's 2008 "Heroes of the Environment" award.

Nordhaus and Shellenberger are leaders of a paradigm shift in climate and energy policy. They proposed "making clean energy cheap" in **The Harvard Law and Policy Review**, explained why the Kyoto climate treaty failed in **Democracy Journal**, and predicted the bursting of the green bubble in **The New Republic** and **Los Angeles Times**. The two predicted the failure of cap and trade in the **American Prospect**, criticized "green jobs" in **The New Republic**, and pointed a way forward for climate policy in the **Wall Street Journal**.

Mr. Nordhaus' thoughts on the global importance of embracing and deploying innovative new energy technologies will add excitement and vision to the third annual Governor's Energy Development Summit, and we look forward to his participation.

# PLENARY SESSION SPEAKERS



## **Governor Gary R. Herbert**

### **State of Utah**

Gary R. Herbert is Utah's 17th Governor. He took his first Oath of Office on August 11, 2009. In 2012 he was re-elected Governor, winning all 29 of Utah's counties. Governor Herbert is focused on four cornerstones to strengthen Utah's economy: Education, energy, jobs, and the ability of the State to solve its own problems. As a result, Utah is a premier destination for business, jobs, and an enviable quality of life. Under Governor Herbert's leadership, Utah has three times been recognized as the "Best State for Business and Careers" by Forbes magazine and the "best State to live in" by GALLUP.COM.

The Governor currently serves as the Chair of the Western Governors' Association (WGA), on the Executive Committee of the National Governors' Association (NGA), and on the Education and Workforce Committee of the NGA.

Prior to becoming the state's chief executive, Governor Herbert served as Lieutenant Governor for five years. In 1990, the Governor was appointed to the Utah County Commission. During his 14 years as county commissioner, he served as president of the Utah Association of Counties and the Utah Association of Realtors, and as a board member of the Provo Orem Chamber of Commerce and Utah Water Conservancy District.

Governor Herbert met his wife, Jeanette Snelson, while attending Brigham Young University.

Shortly after their marriage, the Governor joined the Utah National Guard where he served for six years. He and Jeanette were small business owners for 23 years. The Herberts are the proud parents of six children and 13 grandchildren.



## **Lieutenant Governor Spencer J. Cox**

### **State of Utah**

Spencer J. Cox was appointed Utah's eighth Lieutenant Governor on October 16, 2013. At the time of his selection by Governor Gary R. Herbert, he was serving in the Utah Legislature and had previously served as a County Commissioner and Mayor of Fairview, Utah. He was the Vice President and General Counsel of CentraCom, a full service telecommunications company with one of the largest fiber optic networks in the state. Formerly he practiced law with the law firm Fabian and Clendenin in Salt Lake City.

Lt. Governor Cox earned an Associate Degree from Snow College, a Bachelor's Degree in Political Science and Spanish from Utah State University and a Juris Doctor Degree from Washington and Lee University. He enjoys camping and hiking with his wife and four children and playing the bass guitar with his brother in a local rock band.

# PLENARY SESSION SPEAKERS



## **Ronald W. Jibson**

**President & CEO, Questar Corporation**

Ronald W. Jibson is chairman, president and CEO of Questar Corporation. Prior to his current assignment, Ron was president and CEO of Questar Gas Company and was responsible for distribution of natural gas services to more than 925,000 homes and businesses in Utah, southern Idaho and southwestern Wyoming.

Ron has held Questar positions of corporate executive vice president; vice president of operations for Questar Gas and Questar Pipeline; and general manager of operations, operations manager and director of engineering for Questar Gas. He began his career with Questar 32 years ago, starting as a design engineer. Ron graduated from Utah State University in civil engineering and later received an M.B.A. from Westminster College.

Ron's industry involvement includes serving as chairman of the American Gas Association, which represents more than 200 local energy companies delivering natural gas to more than 65 million customers.

Ron is immediate past chair of Western Energy Institute and he also serves on the Board of Gas Technology Institute. He also serves as chairman of Utah State University's Board of Trustees and the Economic Development Corporation of Utah; as vice-chair of the Salt Lake Chamber Board of Directors; and on the board of the Utah Symphony/Utah Opera. He has served as board chair of Junior Achievement of Utah, and on the boards of United Way of Salt Lake and Utah Shakespearean Festival. Ron, and his wife, Janet, have three sons. His hobbies include golf, fly fishing, hunting and spending time with his family.



## **A. Richard Walje**

**President & CEO, Rocky Mountain Power**

A. Richard Walje is president and chief executive officer of Rocky Mountain Power at PacifiCorp. He was appointed to this position in March 2006. Walje has executive management responsibility for the company's strategy, operations, community relations, regulatory affairs and customer service in Utah, Idaho and Wyoming. Walje has worked in the electric utility industry since 1972, starting as a journeyman lineman. As an electrical engineer, he worked for General Electric's power engineering business and focused on high-voltage equipment applications. During that time he was a member of IEEE's Power Engineering Society. Walje joined Utah Power & Light in 1984 as a substation design and applications engineer. With PacifiCorp, he has held senior management positions in transmission and distribution network operations, community relations, customer services and information technology.

In 2000, Walje was named ScottishPower's chief information officer. Walje currently serves on the Wyoming Business Council Board of Directors, the University of Utah's Business School National Advisory Committee, the University of Wyoming Art Museum Advisory Board, the Utah Sports Commission Board of Directors, and is Chairman of the Economic Development Corporation of Utah. He is Chairman of the PacifiCorp/Rocky Mountain Power Foundation Board of Directors. Walje received a Bachelor of Science degree in electrical engineering in 1984 and a Masters of Business Administration degree in 1991, both from the University of Utah. He is a member of the Tau Beta Pi and Eta Kappa Nu honor societies and was recognized as an outstanding alumnus of the University of Utah's electrical and computer engineering school in 2008. With PacifiCorp, he has held senior management positions in transmission and distribution network operations, community relations, customer services and information technology. In 2000, Walje was named ScottishPower's chief information officer. Walje currently serves on the Wyoming Business Council Board of Directors, the University of Utah's Business School National Advisory Committee, the University of Wyoming Art Museum Advisory Board, the Utah Sports Commission Board of Directors, and is Chairman of the Economic Development Corporation of Utah. He is Chairman of the PacifiCorp/Rocky Mountain Power Foundation Board of Directors. Walje received a Bachelor of Science degree in electrical engineering in 1984 and a Masters of Business Administration degree in 1991, both from the University of Utah.

# PLENARY SESSION SPEAKERS



## Derek B. Miller

Chief of Staff, Governor Gary R. Herbert

Since December 2010, Derek Miller has served as Governor Gary R. Herbert's Chief of Staff, working to increase the efficiency and effectiveness of government. Prior to assuming this position, Derek served as Deputy Director of the Governor's Office of Economic Development (GOED) where he was responsible for recruiting new businesses to locate in the state, as well as helping existing Utah businesses expand. Mr. Miller also supervised the International Trade and Diplomacy Office and the Rural Development Office. In 2005, Mr. Miller was appointed to lead the Utah Division of Real Estate where he aligned the division's systems and reduced application turn-around time from five weeks to one day. This appointment drew Mr. Miller back to Utah from Washington, D.C. where he worked under the House Committee on Transportation and, prior to that, at the D.C. Office of Arthur Anderson.

As Chief of Staff, Mr. Miller oversees and directs the efforts of the Governor's cabinet, ensuring that each of the twenty-two members are focused and working toward the Governor's goals. Mr. Miller also closely monitors the steps taken to build upon the Governor's Four Cornerstones of: Education, energy development, job creation and self-determination.

Mr. Miller graduated from the J. Ruben Clarke School of Law at Brigham Young University with a Juris Doctorate and Masters of Public Administration. He is married to Laura Miller and father of three children.



## Cody Stewart

Energy Advisor, Governor Gary R. Herbert

Cody Stewart has over a decade of experience in government and public policy with a special focus on energy and western natural resource policy. Mr. Stewart has worked in a number of capacities focusing on both Utah and national energy and natural resource policy, including as the Communications Coordinator for the House Committee on Natural Resources under Chairman Jim Hansen (UT-01), as a senior Legislative Assistant on Energy and Public Lands Policy to Congressman Chris Cannon (UT-03), as Executive Director of the Congressional Western Caucus, as a Legislative Director for Congressman Rob Bishop (UT-01), and most recently as Chief-of-Staff to Lt. Governor Greg Bell. Stewart was born and raised in Utah. He graduated from Utah State University where he received bachelor's degrees in both History and Political Science.

Cody also received a joint MBA/Masters degree in Government from John's Hopkins University. Stewart lives with his wife, Mary, and their five children in Farmington, Utah.



## Samantha Mary Julian

Director, Office of Energy Development

Samantha Mary Julian was appointed by the Governor's Energy Advisor to be the Director of the Office of Energy Development in 2011. Before that, she served as the Energy & Natural Resources Cluster Director for the Governor's Office of Economic Development (GOED). The vision for the Office of Energy Development is to serve as the primary resource for advancing energy development in Utah. Ms. Julian is responsible for the promotion of Utah's State Energy Policy, coordinating with the Governor's Energy Advisor to implement the Governor's energy goals and objectives, seeking federal grants and participating in federal programs, assisting industry, and making administrative rules. She is a member of the Governor's Energy Task Force and the Energy Coordinating Council. Under Ms. Julian's leadership the State of Utah launched the first annual Renewable Energy Business Summit (REBS). Ms. Julian has assisted in a number of key energy initiatives such as Governor Herbert's 10-Year Strategic Energy Plan. Prior to joining GOED, Ms. Julian served as a Business Development Manager for the Economic Development Corporation of Utah (EDCUtah). In this capacity, she recruited companies to Utah and assisted companies to relocate or expand here. Ms. Julian received her MBA from Westminster College and B.S. from the University of Utah in Political Science with a certificate in International Relations. She enjoys time reading and camping with her husband and three dogs.



# JUNE 3 PRE-SUMMIT TOURS



## **PARTICIPATE IN PRE-SUMMIT TOUR OF THE UTAH GEOLOGICAL SURVEY'S CORE RESEARCH LAB**

The Utah Geological Survey is hosting a pre-Summit tour of the Utah Core Research Center prior to the Summit's Opening Reception on June 3. Established in 1951, it occupies a 12,000-square-foot warehouse and contains the region's only publicly available and most complete collection of geologic cuttings and core from Utah. Located at the state Division of Natural Resources, the facility holds cuttings from more than 3,500 drill holes; core samples from more than 700 drill holes; a collection of typical oils from all producing formations in the state; representative coal samples from Utah's producing coal mines; and miscellaneous samples of metallic minerals, industrial rocks and minerals, tar sands, oil shale, geothermal wells, and surface stratigraphic sections. Great Salt Lake sediment and brine samples are also available.

The tour will take place on June 3rd, from 2:30-3:30 p.m. Attendees are asked to arrive at the Department of Natural Resources (1594 W North Temple) by 2:20 p.m. Parking at Department of Natural Resources is free of charge.

To register for the tour, please contact Denise Brems at (801) 538-8718 or [dbeaudoin@utah.gov](mailto:dbeaudoin@utah.gov). Tour size is limited to 20.



## **PARTICIPATE IN PRE-SUMMIT TOUR OF THE UNIVERSITY OF UTAH'S ENERGY & GEOSCIENCE INSTITUTE AND RENEWABLE ENERGY DEMONSTRATION LAB**

The Utah Energy Research Triangle is hosting a pre-Summit tour of the University of Utah's Energy and Geoscience Institute (EGI), as well as its Renewable Energy Demonstration Lab prior to the Summit's Opening Reception on June 3. EGI is the world's largest University based industry cost shared upstream research program, with over 100 scientists and dedicated staff, and an additional 100 "Affiliate Scientists" worldwide. Over 70 energy corporations across the globe engage EGI as "Corporate Associate Members." The tour will also include a visit to the University of Utah's Renewable Energy Demonstration Lab, where visitors will see demonstrations of a variety of renewable generation technologies, as well as fuel cells, 3D printing units, and other interesting innovations.

The tour will take place on June 3, from 1:30-3:30 p.m. Attendees are asked to arrive at the Energy & Geoscience Institute (423 Wakara Way #300) by 1:20 p.m. Parking at EGI is free of charge for visitors.

To register for the tour, please contact Ryan Streams at (435) 503-5392 or [rstreams@utah.gov](mailto:rstreams@utah.gov). Tour size is limited to 20.

# BOOTH LISTING

## BOOTH# COMPANY

### 401&500 Questar

### 301&400 Rocky Mountain Power

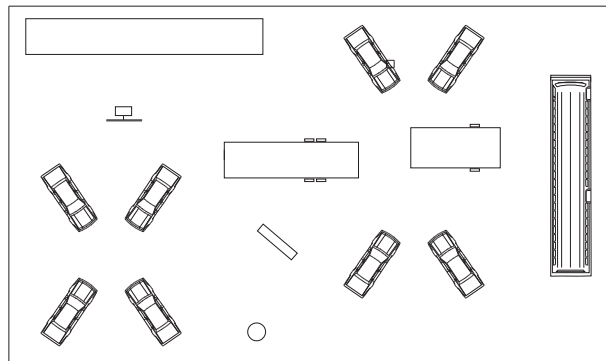
604	Bureau of Land Management
413	Crescent Point Energy U.S. Corp
420	Dept of Environmental Quality
213	Division of Oil, Gas and Mining
209	Eaton Corp
416	Ecology & Environment
320	Enefit American Oil
313	EPG
501	Fuel Freedom Foundation
302	Golder Associates
600	Holland & Hart LLP
513	Hunt Electric
321	Idaho National Laboratory
421	Integrated Energy Companies
217	Intermountain Weatherization Training Center
219	JBR Enviromental Consultants, Inc
504	Master Brands
502	Michael Best & Friedrich LLP
308	National Energy Foundation
518	Naturol Fuels
520	Office of Energy Development
516	Okland Construction
205	Parsons Behle & Latimer

## BOOTH# COMPANY

418	Power Control Cover
405	Progressive Power Solution
517	Salt Lake Chamber
412	Salt Lake Enterprise
610	SDL Distribution
404	Shale Tech Int'l Services LLC
509	Salt Lake Community College
618	Tesoro Refining and Marketing
221	Tooele Army Basin
403	Transcon Environmental
608	Transwest Express LLC
304	Utah Associated Municipal Power Systems (UAMPS)
521	Uinta Basin Information Collaborative
602	US Oil Sands Inc.
519	Utah Association of Energy Users
620	Utah Clean Energy
409	Utah Mining Association
616	Utah Public Lands
305	Utah Safety Council
512	Utah Technology Council
402	Van Cott, Bagley, Cornwall & McCarthy
417	Washakie Renewable Energy
410	Weber State - Energy & Sustainability Office
201	Welborn Sullivan Meck & Tooley P.C
612	Western Grouse Coalition

# BOOTH MAP

Registration



Expo Area

221	320
219	318
217	316

321	420
319	418
317	416

421	520
419	518
417	516

521	620
519	618
517	616

213	312
211	310
209	308

313	412
311	410
309	408

413	512
411	510
409	508

513	612
511	610
509	608

Tradeshow Area

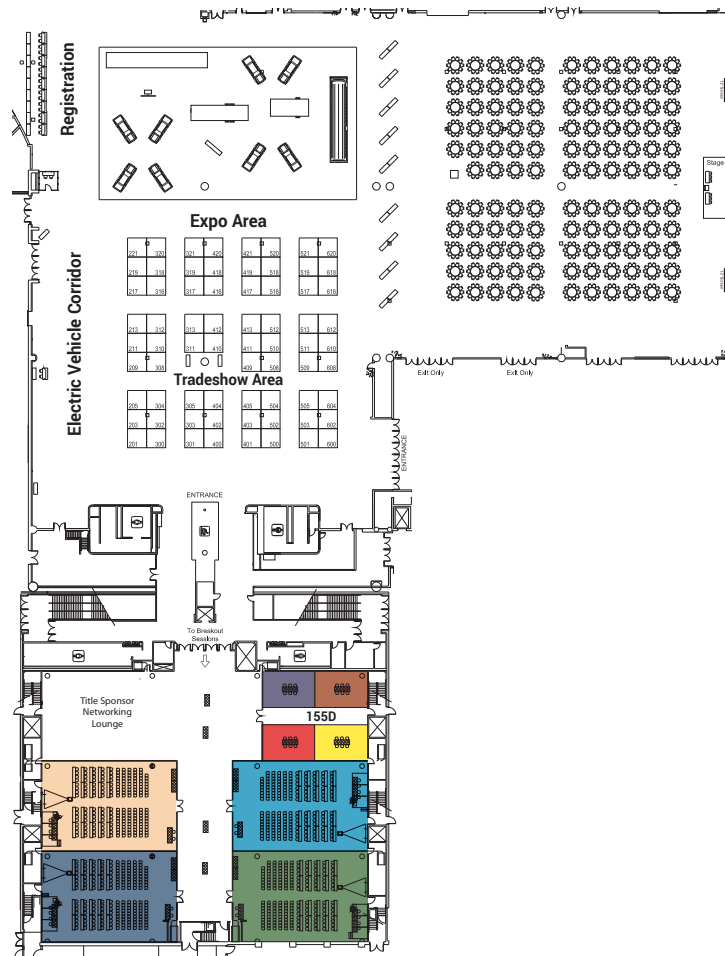
205	304
203	302
201	300

305	404
303	402
301	400

405	504
403	502
401	500

505	604
503	602
501	600

Electric Vehicle Corridor



# BREAKOUT SESSIONS AT A GLANCE

## **BREAKOUT SESSION 1**

9:00 a.m. to 10:00 a.m.

**EXPEDITING OIL & GAS DEVELOPMENT IN WESTERN STATES** *Room 155B*

**NUCLEAR ENERGY'S ROLE IN ADDRESSING THE CHALLENGES OF THE 21ST CENTURY** *Room 155F*

**DEVELOPMENTS IN UTILITY SOLAR BUSINESS MODELS** *Room 155C*

**THE CHANGING FACE OF TRANSPORTATION** *Room 155E*

## **BREAKOUT SESSION 2**

10:30 a.m. to 12:00 p.m.

**ENERGY PRODUCING STATES COALITION: A UNIFIED VOICE TO THE FEDERAL GOVERNMENT** *Room 155B*

**ENDANGERED SPECIES: THE NEED FOR A COLLABORATIVE REGIONAL APPROACH** *Room 155F*

**WHAT'S NEXT FOR GENERATION AND TRANSMISSION IN THE WEST** *Room 155C*

**COMMERCIAL PROPERTY ASSESSED CLEAN ENERGY: PROSPECTS FOR A NEW MODEL IN UTAH AND THE WEST** *Room 155E*

## **BREAKOUT SESSION 3**

1:30 p.m. to 3:00 p.m.

**PUBLIC LANDS INITIATIVE UPDATE** *Room 155B*

**OPTIMIZING ENERGY PRODUCTIVITY IN DEVELOPING OIL SHALE AND SAND RESOURCES** *Room 155F*

**LARGE-SCALE SOLAR'S ARRIVAL TO SOUTHERN UTAH** *Room 155C*

**ENERGY EFFICIENCY & CONSERVATION PLANNING: A REGIONAL PERSPECTIVE** *Room 155E*

## **BREAKOUT SESSION 4**

3:30 p.m. to 4:30 p.m.

**IMPACTS OF GREENHOUSE GAS REGULATIONS ON ENERGY PRODUCTION** *Room 155B*

**ENERGY RESEARCH TRIANGLE: CONNECTING UTAH'S ENERGY R&D ASSETS WITH UTAH'S ENERGY CHALLENGES** *Room 155F*

**UTAH'S FUTURE IN ENERGY STORAGE** *Room 155C*

**ALTERNATIVE TRANSPORTATION AND THE ROAD AHEAD: A FLEET PERSPECTIVE** *Room 155E*

# MAP OF BREAKOUT SESSIONS



**155B**

CONVENTIONAL ENERGY



**155E**

ENERGY EFFICIENCY



**155C**

RENEWABLE ENERGY

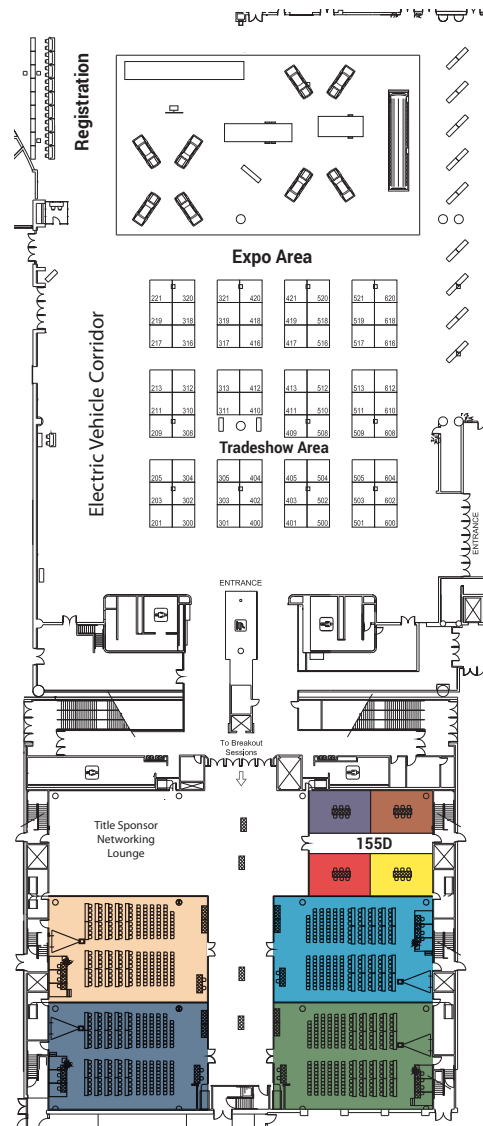


**155F**

UNCONVENTIONAL ENERGY

Title Sponsor  
Networking  
Lounge

155D



# BREAKOUT SESSION ONE

*Location: Room 155B*

## EXPEDITING OIL & GAS DEVELOPMENT IN WESTERN STATES

*The United States' current energy boom has had dramatic economic impacts on many states, perhaps most notably on North Dakota, whose rapid expansion of oil and gas production in recent years has vaulted it to the top of many economic charts. Such expansion has come relatively easy in North Dakota, a state in which less than 4% of lands are federally owned. In Utah and neighboring federal lands dominated states, federal ownership ranges from 61-81%, a circumstance which has proven to drastically hinder energy production. This panel examines potential alternatives that can help move the needle on energy production in Utah and other federal lands states.*

### *Presenters:*

**LaVonne Garrison** *School & Institutional Trust Lands Administration*

**Kent Hoffman** *Bureau of Land Management*

**Manuel Myore** *Ute Tribe*

**Kent Peatross** *Duchesne County*

**Ursula Rick** *Western Energy Alliance*

**Selma Sierra** *Utah State University's Bingham Research Center*

### *Researcher Panelists:*

**Luci Arveseth** *Utah State University*

**Andy Pierucci** *Utah State University*

**Kyle Wallace** *Utah State University*

*Location: Room 155F*

## NUCLEAR ENERGY'S ROLE IN ADDRESSING THE CHALLENGES OF THE 21ST CENTURY

*Access to electricity is fundamental to enjoying the benefits of modern society. Can a practical and responsible approach to improving a growing population's quality of life and effectively addressing climate change turn away from nuclear technology? What do the facts tell us about the relative costs and benefits of nuclear energy systems as compared to alternatives? To what extent can new nuclear technologies address concerns regarding nuclear energy?*

### *Presenters:*

**Leisa Brug** *State of Arizona*

**Doug Hunter** *Utah Associated Municipal Power Systems*

**Harold McFarlane** *Idaho National Laboratory*

**Michael McGough** *NuScale Power*



# BREAKOUT SESSION ONE

*Location: Room 155C*

## DEVELOPMENTS IN UTILITY SOLAR BUSINESS MODELS

*As the development of the distributed solar market begins increasingly to impact utilities, how can utilities respond proactively to those changes? The approach could be characterized by broad shifts in the ways utilities recover costs by restructuring electricity rates, but could also include more specific programmatic proposals available to utility customers or project developers such as community solar or utility ownership of solar projects. This panel explores what local and national utilities are doing to address the conundrum of distributed solar generation.*

*Presenters:*

**Colin Jack** *Dixie Power*

**Carl Linvill** *Regulatory Assistance Project*

**Rep. Robert Spendlove** *Utah House of Representatives*

**Dave Taylor** *Utah Regulatory Affairs, Rocky Mountain Power*

**Sarah Wright** *Utah Clean Energy*

*Location: Room 155E*

## THE CHANGING FACE OF TRANSPORTATION

*Not only does the transportation sector provide for the mobility of people and goods, it also influences patterns of growth and economic activity by providing access to land. New developments in transportation have the potential to impact public policy concerns like air quality, environmental resource consumption, social equity, land use, urban growth, economic development, safety, and security. This session will offer presentations by experts that will address both opportunities and challenges faced by the transportation sector as it experiences a period of rapid change.*

*Presenters:*

**Joe Cannon** *Fuel Freedom Foundation*

**GJ LaBonty** *Utah Transit Authority*

**David Peterson** *Nissan*

**Craig Wagstaff** *Questar*

# BREAKOUT SESSION TWO

*Location: Room 155B*

## **ENERGY PRODUCING STATES COALITION: A UNIFIED VOICE TO THE FEDERAL GOVERNMENT**

*Federal policies affect many aspects of energy production, but have a special impact in western states like Utah, where almost 70% of the state is federally owned. The Energy Producing States Coalition (EPSC) is a collaboration of state legislators from around the country whose shared mission is to foster interstate collaboration that creates sound energy policy. EPSC members advocate as a group to federal agencies and to Congress to provide a single and coherent state voice on regulatory issues affecting energy development in their states.*

*Presenters:*

**Roger Barrus** *Utah State Legislature*  
**Eli Bebout** *Wyoming State Legislature*  
**Steve Handy** *Utah State Legislature*  
**Cathy Giessel** *Alaska State Legislature*  
**Bob Skarphol** *North Dakota State Legislature*

*Location: Room 155F*

## **ENDANGERED SPECIES: THE NEED FOR A COLLABORATIVE REGIONAL APPROACH**

*Effective protection of endangered species requires collaborative solutions that address natural rather than political boundaries. Panelists will address the need for a collaborative regional approach to protecting endangered species that improves outcomes without unnecessarily constraining energy development.*

*Presenters:*

**Ryan Clerico** *Enefit American Oil*  
**Larry Crist** *US Fish & Wildlife Service*  
**John Harja** *Utah's Public Lands Policy Coordination Office*  
**Michael McKee** *Uintah County*

# BREAKOUT SESSION TWO

*Location: Room 155C*

## WHAT'S NEXT FOR GENERATION AND TRANSMISSION IN THE WEST

*The National Renewable Energy Laboratory recently completed a fascinating study that reveals a great deal about the future of electric generation and transmission in the West. Using 2035, the year in which the region's last Renewable Portfolio Standard will run its course, as a starting point, the document considers what renewable resources will have been developed by this time in order to meet RPS standard, and what transmission will have been built to accommodate it. It goes on to consider how those resources are likely to be positioned at that time with respect to conventional generation from a price perspective, and what that dynamic will mean for beyond 2035.*

*Presenters:*

**Jeff Burks** *Energy Strategies*

**David Hurlbut** *National Renewable Energy Laboratory*

**Carl Linvill** *Regulatory Assistance Project*

**Keegan Moyer** *Western Electric Coordinating Council*

**Julia Pettit** *Stoel Rives*

*Location: Room 155E*

## COMMERCIAL PROPERTY ASSESSED CLEAN ENERGY: PROSPECTS FOR A NEW MODEL IN UTAH AND THE WEST

*C-PACE is Property Assessed Clean Energy, an innovative way for commercial property owners to pay for energy efficiency upgrades, on-site renewable energy projects, and possibly water conservation measures. PACE is a national initiative, but programs are locally-based and tailored to meet market needs. This session will provide presentations from regional representatives that will discuss how PACE financing can move forward the adoption of commercial building energy efficiency measures.*

*Presenters:*

**Kimberly Barnett** *Office of Mayor Ben McAdams, Salt Lake County*

**Kevin Emerson** *Utah Clean Energy*

**Justin Farnsworth** *Newmark Grubb ACRES*

**David Gabrielson** *PACENow*

**Ryan Warburton** *Ballard Spahr*

**Alan Westenskow** *Zions Bank*

# BREAKOUT SESSION THREE

*Location: Room 155B*

## PUBLIC LANDS INITIATIVE UPDATE

*Rooted in the belief that conservation and economic development can co-exist, the Public Lands Initiative is a locally driven effort to bring resolution to some of the most challenging land disputes in the state of Utah. This session discuss the importance of this effort, and will provide an update on the current status of the initiative, including milestones and timelines.*

*Presenters:*

**Rob Bishop** *U.S. House of Representatives*

**Kevin Carter** *School and Institutional Trust Lands Administration*

**Lynn Jackson** *Grand County*

**Michael McKee** *Uintah County*

**Cody Stewart** *Governor's Office*

*Location: Room 155F*

## OPTIMIZING ENERGY PRODUCTIVITY IN DEVELOPING OIL SHALE AND SAND RESOURCES

*Reducing the energy required to produce a barrel of oil from unconventional resources makes both environmental and economic sense. Panelists will discuss energy efficient technology and processes that can be applied to unconventional energy production to improve both profits and environmental protection.*

*Presenters:*

**Jeremy Boak** *Colorado School of Mines*

**Dr. Richard Boardman** *Idaho National Laboratory*

**Lance Lehnhof** *Red Leaf Resources*

**Larry Lukens** *Shale Tech International Services*

**Cameron Todd** *US Oil Sands*

# BREAKOUT SESSION THREE

*Location: Room 155C*

## LARGE-SCALE SOLAR'S ARRIVAL TO SOUTHERN UTAH

*Utah's solar resource is world-class, however the market conditions have never aligned sufficiently to drive the deployment of large, utility scale solar projects. But that is changing fast. Large and small utility scale projects, from two to 300 megawatts, are currently under development in central and southern Utah, for sale both to utilities in Utah and in California. While large-scale wind projects led the way for renewable energy development in Utah, should even half of the projects proposed today come to fruition, wind will be in a distant second place position to solar in terms of megawatts of capacity deployed in Utah.*

*Presenters:*

**Chad Ambrose** *PacifiCorp*

**Carrie Bellamy** *Juwi Solar*

**Tim Charters** *U.S. House Natural Resources Committee*

**Gary Dodge** *Utah Association of Energy Users*

**Robert Hopper** *SunEdison*

**Jeff Rogers** *Juwi Solar*

**Peter Sullivan** *First Wind*

*Location: Room 155E*

## ENERGY EFFICIENCY & CONSERVATION PLANNING: A REGIONAL PERSPECTIVE

*Opportunities for energy conservation are increasingly available in almost every application in any setting. Home, school, office, and industrial environments have all benefited from cost-saving and energy-saving innovations. The State of Utah recently oversaw creation of the Utah Energy Efficiency and Conservation Plan, which provides specific recommendations that will help ensure energy and resource conservation within several sectors. The Office of Energy Development will introduce the Plan and panelists will discuss the potential for regional expansion of efficiency and conservation efforts.*

*Presenters:*

**Leisa Brug** *State of Arizona*

**Warren Cook** *Oregon Dept of Energy*

**Sunny Dent** *National Energy Foundation*

**Howard Geller** *Southwest Energy Efficiency Project (SWEET)*

**Christopher Wagner** *NASEO*

# BREAKOUT SESSION FOUR

*Location: Room 155B*

## IMPACTS OF GREENHOUSE GAS REGULATIONS ON ENERGY PRODUCTION

*President Obama has directed the EPA to create rules to regulate carbon dioxide emissions for new and existing power plants. This session will address the costs of regulating greenhouse gases for electricity generation, how those costs will affect Utah's economy, and how we can mitigate adverse impacts.*

*Presenters:*

**Mason Baker** *Utah Associated Municipal Power Systems*

**David Crabtree** *Deseret Power Electric Cooperative*

**Laura Farris** *Environmental Protection Agency*

**Emily Schilling** *Holland & Hart*

**Amanda Smith** *Department of Environmental Quality*

**Mary Wiencke** *PacifiCorp*

*Location: Room 155F*

## ENERGY RESEARCH TRIANGLE: CONNECTING UTAH'S ENERGY R&D ASSETS WITH UTAH'S ENERGY CHALLENGES

*The Utah Energy Research Triangle is an important objective of Utah's 10-Year Strategic Energy Plan. It is designed to connect Utah's researchers at Brigham Young University, Utah State University and the University of Utah through a competitive grant program to work collaboratively on Utah's own energy challenges. The Energy Research Triangle session will address current research efforts as well future areas of interest to the state and industry.*

*Presenters:*

**Dr. Daniel Ess** *Brigham Young University*

**Michael Hoepfner** *University of Utah*

**Dr. Marc Mansfield** *Utah State University*

**Alan Walker** *Utah Energy Research Triangle*



# BREAKOUT SESSION FOUR

*Location: Room 155C*

## UTAH'S FUTURE IN ENERGY STORAGE

*Utah's unique large scale energy storage assets, from Compressed Air Energy Storage to Closed-Loop Pumped Storage, have, until recent months, been considered resources that, while critical to the grid of the future, was not likely to be deployed in the near term. Recent changes to California's Renewable Portfolio Standard that mandate the acquisition of storage to help accomodate growing proportions of intermittent resources could help to shift these timelines forward dramatically. Not only would this jumpstart any large scale storage in development in Utah, but it could have the effect of placing a premium on Utah's renewable resources in the California market.*

*Presenters:*

**Dennis Hansen** *PacifiCorp*

**Seth Hilton** *Stoel Rives*

**Tiffany James** *Magnum Energy*

**Michael Milligan** *National Renewable Energy Laboratory*

*Location: Room 155E*

## ALTERNATIVE TRANSPORTATION AND THE ROAD AHEAD: A FLEET PERSPECTIVE

*The panel will explore the rationale, lifecycle costs and other considerations that go into investment decisions being made by top fleets as they address rapid changes in transportation options. Speakers will also explore economic influences shaping the market and help define the elements of a business case required for investment and growth in the advanced transportation arena.*

*Presenters:*

**C. Lance Allen** *Waste Management of the Four Corners*

**Robin Erickson** *Utah Clean Cities*

**Scott M. Lavery** *UPS-West Region*

**Sam Lee** *State of Utah*

**Murrell Martin** *Utah State School Board*

# PRESENTERS & MODERATORS



## **Chad Ambrose**

Manager, Rocky Mountain Power

Chad is Rocky Mountain Power's Renewables Program Manager. He was appointed this position in January 2014. Ambrose has responsibility for overseeing Rocky Mountain Power's company initiatives and strategic plan for enhancing company programs to better serve the changing renewable generation needs of customers and communities.

## **Mason Baker**

General Counsel, Utah Associated Municipal Power Systems

Mr. Baker holds a law degree from the University of Utah and a Bachelor of Arts degree in Philosophy from Colorado College. Mason holds a certificate in Environmental and Natural Resources Law from the University of Utah and sits on the Board of the Salt Lake Climbers Alliance. Mason enjoys rock climbing throughout the West.



## **Rep. Roger Barrus**

Utah House of Representatives

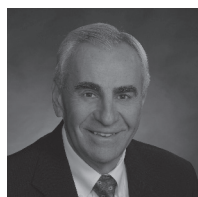
Representative Barrus was elected to the Utah House of Representatives in 2000. He chaired the Legislature's Natural Resources, Agriculture and Environment Committee for eight years and currently chairs the Public Utilities and Technology Committee.



## **Kimberly Barnett**

Senior Advisor, Salt Lake County Mayor Ben McAdams

Kimberly Barnett is Senior Advisor to Salt Lake County Mayor Ben McAdams. She leads diverse public policy research and implementation, assists with local government relations, and specializes in environmental policy. Prior to joining Mayor McAdams' team she was Intergovernmental Relations Coordinator for Mayor Peter Corroon.



## **Sen. Eli Bebout**

President, Nucor Oil & Gas

Sen. Eli works in the oil and gas business. He is President of Nucor Oil & Gas, and Vice President of Nucor Drilling, a business he runs with his brother Nick. Along with running Nucor Oil and Gas and Nucor Drilling, Eli also owns several other companies giving him a strong background in business.



## **Carrie Bellamy**

Director of Business Development, juwi solar Inc.

In this role, Ms. Bellamy supports the development of JSI's project pipeline and is responsible for identifying project opportunities and potential partnerships working with the relevant stakeholders to secure the requisite land and development rights needed to execute utility scale solar projects.



## **Rep. Rob Bishop**

U.S. House of Representatives

Representative Rob Bishop is currently serving his sixth term as a member of the United States House of Representatives. Serves on the House Rules Committee, House Armed Services Committee, House Natural Resources Committee, and is Chairman of the House Natural Resources Public Lands and Environmental Regulation subcommittee.



## **Jeremy Boak**

Director, COSTAR

Jeremy Boak is the Director of the Center for Oil Shale Technology and Research (COSTAR) at the Colorado School of Mines. Dr. Boak received his Ph.D. degree in Geological Sciences from Harvard University.



## **Richard Boardman**

Department Manager, Idaho National Laboratory

As the Department Manager for energy systems development and testing, he is responsible for the use of scientific computational tools and testing facilities supporting the evaluation and development of fossil-renewable-nuclear hybrid energy systems.



## **Leisa Brug**

Director, Arizona Governor's Office of Energy Policy

Leisa is the Director of the Governor's Office of Energy Policy and serves as Energy Policy Advisor to Governor Jan Brewer. She manages a staff of 15 people aimed at helping local governments and Arizona residents reduce energy cost through energy efficiency and/or renewable energy technologies.

# PRESENTERS & MODERATORS



## Joe Cannon

President, Fuel Freedom Foundation

Joe brings a wide array of leadership experience in government, law, business, and journalism to the building of this national effort. He served as editor of the Deseret News, the leading newspaper in Utah. Prior to the Deseret News, he was a partner and co-leader of the Public Practice & Political Law practice team at Pillsbury Winthrop Shaw Pittman LLP.

## Kevin Carter

Director, Utah School and Institutional Trust Lands Administration

Carter leads and directs all administrative and operational functions of this independent state agency, including oil and gas, mining, surface, and real estate development projects.



## Tim Charters

Staff Director, Subcommittee on Energy and Mineral Resources

Tim started with the Committee on Natural Resources in June 2008. The Subcommittee has jurisdiction over all onshore and offshore oil, natural gas, solar and wind energy on federal lands, federal lands energy programs, the United States Geologic Service and the Office of Surface Mining.



## Ryan Clerico

Manager, Enefit American Oil

Mr. Ryan Clerico serves as Manager, Environmental and Regulatory Affairs for Enefit American Oil, the U.S.-based subsidiary of Eesti Energia. Eesti Energia is Estonia's national energy company and is the largest employer in the Baltic Region of northern Europe, with nearly 100 years of experience working with oil shale.



## David Crabtree

Vice President, General Counsel of Deseret Power

David Crabtree is the Vice President, General Counsel of Deseret Power as well as the General Counsel of Blue Mountain Energy. With over 25 years experience in the legal profession and executive management, he combines a broad background representing various business and governmental entities with long-term strategic thinking.



## Sunny Dent

Senior Vice President, National Energy Foundation

Sunny Dent oversees the NEF Fundraising Team. She leads strategic planning design, works to build partnerships and assists in writing grants and proposals and works to align NEF's educational products and services with energy industry objectives.



## Gary Dodge

Principal, Hatch, James & Dodge

Gary A. Dodge, a shareholder at Hatch, James & Dodge, PC, focuses his practice primarily on energy development and utility matters. He represents a broad spectrum of energy clients, including energy consumers, project developers, with a specific emphasis on renewable energy projects, and public power utilities.



## Kevin Emerson

Senior Policy & Regulatory Associate, Utah Clean Energy

Kevin is the lead for energy efficiency programs, policies and regulatory activities for Utah Clean Energy. He works with diverse partners to increase utility energy efficiency and demand-side management, adopt state policies that advance energy efficiency, and build Utah's clean energy workforce.



## Robin Erickson

Executive Director, Utah Clean Cities Coalition

In 2007 Robin was appointed by former Governor Huntsman to serve as a member of the State of Utah Motor Vehicle Review Committee. She currently sits on this committee, and is a member of the Alternative Transportation & Fuels Advisory Group, Board of Directors for UCAIR, Clean Air Action Team, Southern Utah Air Quality Task Force, and the Clean Cities Coordinator Council.



## Dan Ess

Professor, Brigham Young University

In 2010 Dan began his independent career at BYU. His group has received funding from the Department of Energy, the ACS petroleum research foundation, and private industry. Currently he is a principal investigator in the Center for Catalytic Hydrocarbon Functionalization.

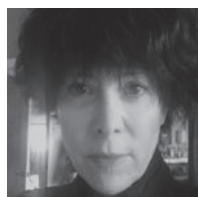
# PRESENTERS & MODERATORS



## Justin Farnsworth

Vice President, Newmark Grubb

Justin Farnsworth is the Vice President of Asset Services at Newmark Grubb Acres. He has primary responsibility for leading the Asset Services team with a focus on office properties. During his tenure, Justin has gained a significant amount of expertise with maximizing energy management and efficiency.



## Laura Farris

Climate Change Coordinator, EPA Region 8

Laura is a mechanical engineer by training, and has been with the Environmental Protection Agency off and on since the late 80's specializing in pollution prevention, sustainability, and climate change. Since 2007, she has been the Climate Change Coordinator for EPA Region 8, where she coordinates a suite of greenhouse gas reduction activities throughout the Regional Office.



## David Gabrielson

Executive Director, PACENow

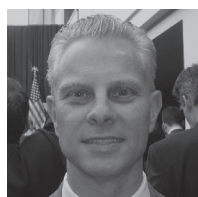
David was introduced to PACE while helping develop Energize Bedford, an energy efficiency financing program for homes in Bedford, New York, where he has served as an elected Councilman since 2008. A related program, Energize NY is the statewide provider of commercial PACE financing in the Empire State.



## LaVonne Garrison

Assistant Director for Oil and Gas, SITLA

LaVonne has more than 35 years experience in the oil and gas industry as both an independent landman and as a land manager for an independent oil and gas company with holdings throughout the Rocky Mountain states. She joined SITLA in 2000 and currently manages the oil and gas leasing and development program on trust lands in Utah.



## Howard Geller

Executive Director, Southwest Energy Efficiency Project  
Howard is Executive Director and Founder of the Southwest Energy Efficiency Project (SWEET), a public interest organization operating in Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming. He has advised and provided technical assistance to numerous utilities, governmental organizations, and international agencies.



## Sen. Cathy Giessel

Senator, Alaska State Legislature

Senator Giessel has been in the Alaska State Senate since 2011 and is the chair of the Natural Resources Committee. She is also involved with the Energy, Transportation, and Agriculture Committee and the Energy and Public Lands Committee.



## Rep. Steve Handy

Utah House of Representatives

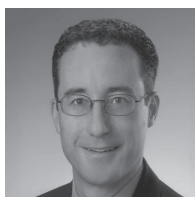
Rep. Steve Handy serves as a member of the House Public Utilities and Technology Committee where he is the Vice Chairman. Additionally, he is a member of the House Natural Resources and Agriculture Committee. Steve is the Chairman of the House Ethics Committee and serves on the joint Public Education Appropriations Sub-Committee.



## Dennis Hansen

Principal Engineer, PacifiCorp

Mr. Hansen presently serves as principal engineer for Engineering Technical Services at PacifiCorp / Rocky Mountain Power. In this role he manages a small group that handles a variety of issues for which engineering standards are marginal, emerging, or do not exist.



## Seth Hilton

Attorney, Stoel Rives

Seth Hilton is a partner in the Energy Development practice group in Stoel Rives' San Francisco Office. He focuses his practice on energy regulation and litigation and represents clients in state and federal court and before a variety of regulatory agencies in California.



## Michael Hoepfner

Assistant Professor, University of Utah

Michael is an Assistant Professor in the Department of Chemical Engineering at the University of Utah. Dr. Hoepfner joined the U after completing his Ph.D. in chemical engineering at the University of Michigan. Dr. Hoepfner's research focuses on elucidating the fundamental behavior of complex systems, with an emphasis on petroleum.

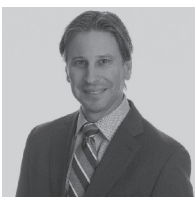
# PRESENTERS & MODERATORS



## Kent Hoffman

Deputy State Director, Bureau of Land Management

Kent has served in the Deputy State Director position since May 2002. As director of the lands and minerals division he is responsible for management and oversight of federally held mineral estate including oil, gas, coal, potash, and other locatable and leasable minerals.



## Bob Hopper

Vice President, SunEdison

Bob is responsible for managing SunEdison's origination and market strategy in the United States. Prior to SunEdison, Bob was the Chief Development Officer for Enfinity America Corporation, which was acquired by SunEdison in early 2014. Bob has 24 years of experience in the energy industry as well as experience in project development and energy business planning



## Doug Hunter

President & CEO, Utah Associated Municipal Power Systems

Doug is the general manager of Utah Associated Municipal Power Systems ("UAMPS") and is a 35 year veteran of the electric utility industry. UAMPS is a joint action agency that provides comprehensive electric energy services to 45 community-owned power systems throughout eight Intermountain West states.



## David Hurlbut

Senior Analyst, NREL

David Hurlbut is an economist and senior analyst with NREL's Strategic Energy Analysis Center. He led NREL's technical support to the Western Governors' Association for the Western Renewable Energy Zone Initiative, which identified renewable energy resource zones throughout the western United States.



## Scott C. Hutchings

Manager, Public & Government Affairs for Waste Management's Four Corners Market

Scott manages the legislative and political activities, as well as oversees the contract lobbyists. He also serves and represents the company on the Board of the Colorado Association for Recycling, Colorado Motor Carriers and as Vice Chair of Colorado Association of Commerce and Industry Industrial Waste Committee.



## A. Lynn Jackson

Commissioner, Grand County

Lynn is currently in his first term as a Grand County Council member elected in November 2012. Prior to that time he had been semi-retired for 2-3 years, doing public land resource consulting. He retired after 32 years with BLM, all in southeastern Utah, where he started as a geologist, and ended up on the management side of things in Moab.



## Scott Lavery

Vice President, UPS West Region

Scott has held various positions across different parts of the country in his 30 years with UPS. Scott has been in the fleet maintenance industry for over 39 years. Scott has been involved with CNG vehicles since the early 1990's and more recently various other types of Alternative Fuel vehicles.



## Sam Lee

Director of Fleet Operations, State of Utah

Sam has been with the state fleet for 14 years and is responsible for the purchase and management of the 4,500 vehicles leased to state agencies. Sam is currently serving as Vice President on the Executive Committee of the National Conference of State Fleet Administrators (NCSFA).

## Larry Lukens

Executive Technical Director, Shale Tech International Services

Larry has an background in synthetic fuels with over 40 years of experience in energy related fields, over 30 of which in oil shale. Prior to joining Paraho, Dr. Lukens held senior management positions at the U.S. Department of Energy and at the U.S. Synthetic fuels Corporation.



## Marc Mansfield

Senior Environmental Modeler, Bingham Research Center

In 2010 Marc took a position at the Bingham Energy and Entrepreneurship Research Center at Utah State University Uintah Basin in Vernal. His research interests include modeling of atmospheric processes including winter ozone production in the Uintah Basin, and has participated in the annual Uintah Basin Winter Ozone studies.



# PRESENTERS & MODERATORS



## Murrell Martin

Director of Fleets, Utah State Board

Murrell has been in the pupil transportation industry for the past 30 years, and currently directs all aspects of pupil transportation for the state of Utah. He is passionate about promoting the many values of school bus transportation as a vital support to public education. Murrell is a Certified Public Manager® and received CPM designation in 2009.



## Mike McGough

Chief Commercial Officer, NuScale

McGough oversees the company's worldwide commercialization efforts. He joined NuScale from UniStar Nuclear where he was Senior Vice President. He is a 35-year veteran of the commercial nuclear industry, working in support of nuclear plants worldwide. He has been inside all but two US nuclear plants and 16 outside the US.



## Michael J. McKee

Commissioner, Uintah County

Michael is currently serving his 10th year as Uintah County Commissioner. He serves on State Sage Grouse Advisory Group for the Governor and is a leader on public land and energy issues.

## Dr. Michael Milligan

Principal Analyst, National Renewable Energy Laboratory

Dr. Milligan is with the Transmission and Grid Integration Group at the National Renewable Energy Laboratory, where his work focuses on large-scale integration of wind and solar energy on the bulk power system. He is the author/coauthor of more than 175 journal articles, conference papers, technical reports, and book chapters on wind and solar integration issues.



## Keegan Moyer

Manager, Transmission Expansion Planning

Keegan Moyer is the Manager of Transmission Expansion Planning at the Western Electricity Coordinating Council (WECC). He is responsible for providing leadership and direction to the WECC Transmission Expansion Planning Department and oversees Transmission Expansion Planning Policy Committee (TEPPC) stakeholder activities.

## Manuel Myore

Director, Ute Indian Tribe Energy and Minerals Department

Mr. Myore is a enrolled member of the Ute Indian Tribe managing the Tribes Resources i.e. Oil & Gas, Tar Sands, Oil Shell. Assuring that any management of tribal assets that the secretary has an obligation to undertake.



## Dr. Kemal Pasamehmetoglu

Associate Laboratory Director, Idaho National Laboratory

Dr. Pasamehmetoglu has more than 25 years of research engineering experience within the national laboratory system. He has been with INL since 2004, most recently serving as the Associate Laboratory Director for the Nuclear Science & Technology Directorate.



## Kent Peatross

Commissioner, Duchesne County

Kent has served on many boards throughout his life including Central Utah Water Conservancy District for 18 years, Uintah Basin Medical Center for 7 years, Uintah Basin Telephone Cooperative now Strata Networks for 40 years, Permanent Community Impact Board for 6 years, and has been a County Commission for almost 12 years.



## Julia Pettit

Attorney, Stoel Rives

Julia Pettit is an attorney at Stoel Rives, LLP and practices in the firm's Corporate group. Julia focuses her practice in the area of energy project finance and development and M&A. Julia's energy practice also includes advising on and/or negotiating core agreements relating to energy projects.



## Ursula Rick

Manager, Western Energy Alliance

Ursula Rick the Manager of Regulatory Affairs at Western Energy Alliance, where she works with industry, regulators and academic scientists to improve regulation of the oil and gas industry. Prior to that, she worked on energy and natural resource policy for Sen. Mark Udall (CO) in Washington, DC.



# PRESENTERS & MODERATORS



## Jeff W. Rodgers

Tax Counsel, juwi solar Inc.

Mr. Rodgers serves in the Boulder office of juwi solar Inc. where he manages juwi's North American tax function for both its solar and wind businesses. In this position, he has assisted the company in federal, state and foreign jurisdiction tax planning and compliance for numerous solar projects, with projects being built in over 10 states.



## Emily Schilling

Attorney, Holland & Hart

Emily Schilling is an attorney in Holland & Hart's Washington, D.C. and Salt Lake City offices with a practice focusing on air quality and climate change. Ms. Schilling counsels mining and other natural resource companies on compliance with existing air quality regulations.



## Selma Sierra

Director for Policy, Bingham Research Center

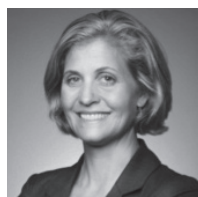
Selma is the Director for Policy at USU Bingham Research Center where she focuses on energy and environmental public policy issues. Selma has extensive experience in energy, environmental, and public lands management. Prior to joining USU, Selma was the State Director for the Bureau of Land Management (BLM) in Utah.



## Rep. Bob Skarphol

Chair, Appropriations Education and Environment Subsection

Rep. Bob Skarphol has been a member of the North Dakota House of Representatives from 1993 to 1997 and returned to serve his district in 2001. He has served on the House Appropriations since 2001.



## Amanda Smith

Executive Director, Department of Environmental Quality

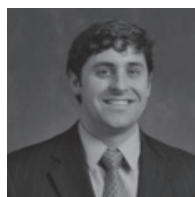
Amanda was appointed as the Executive Director of the Utah Department of Environmental Quality (DEQ), in 2009. As Executive Director of DEQ, she is responsible for providing leadership to the Department and the state of Utah to carry out DEQ's mission of safeguarding human health and quality of life.



## Rep. Robert Spendlove

Utah House of Representatives

Robert has served as a member of the Utah House of Representatives since January 2014. He proudly represents Sandy and Cottonwood Heights in the State Legislature, and serves on the Higher Education Appropriations Committee, as well as the Public Utility and Technology Committee and the Law Enforcement and Criminal Justice Committee.



## Peter Sullivan

Development Director, First Wind

Tim started with the Committee on Natural Resources in June 2008. The Subcommittee has jurisdiction over all onshore and offshore oil, natural gas, solar and wind energy on federal lands, federal lands energy programs, the United States Geologic Service and the Office of Surface Mining.

## Dave Taylor

Manager, Rocky Mountain Power

Dave Taylor is Rocky Mountain Power's Manager of Regulatory Affairs for the State of Utah. Mr. Taylor directs Rocky Mountain Power's regulatory proceedings before the Public Service Commission of Utah. He has been employed in the electric utility business since 1979 with nearly 30 years' experience in utility regulation and pricing.



## Cameron Todd

CEO, US Oil Sands

Cameron Todd has over 30 years of experience in the oil and gas industry in both Western Canada and internationally. Prior to joining US Oil Sands in 2011, Mr. Todd served as Senior VP, Operations, Refining and Marketing at Connacher Oil and Gas Limited.



## Craig Wagstaff

Executive Vice President & COO, Questar Gas Company

Craig Wagstaff is executive vice president & chief operating officer of Questar Gas Company and chief operating officer for Questar Fueling. He is responsible for all company functions that have to do with delivering natural gas to more than 950,000 homes and businesses in Utah, southwestern Wyoming and southern Idaho.



### **Al Walker**

Executive Director, Utah Energy Research Triangle

Al Walker is responsible for commercial development of USTAR energy initiatives in traditional and renewable energy technologies at the U of U and USU. After ten years in the US Army, he worked for General Electric, Amoco, Questar, and USTAR in energy production engineering and management.



### **Ryan Warburton**

Partner, Ballard Spahr

Ryan R. Warburton is Team Leader of the firm's Housing Bonds Team. Mr. Warburton has extensive experience with mortgage revenue bonds and multifamily residential rental bonds and has served as counsel in charter school financings, capital grant funding securitizations, and Low Income Housing Tax Credits financings.



### **Alan Westenskow**

V.P., Zions Bank Public Finance

Alan has worked at Zions Bank Public Finance since 1999. He is a registered Municipal Securities Representative and holds a series 52 securities license. He assists cities, school districts, counties, states and other local governments in financing energy, water, sewer, transportation, education, economic development and other public infrastructure projects.



### **Mary Wiencke**

Director of Environmental Policy & Strategy, PacifiCorp

Ms. Wiencke is responsible for the development of PacifiCorp's environmental policy, strategy, and programs including the development of comments on proposed state and federal laws and regulations, integrating environmental assessments of existing and anticipated environmental regulations.



### **Sarah Wright**

Founder, Utah Clean Energy

Sarah has a proven record of accomplishment in the promotion of renewable energy and energy efficiency within the state of Utah. As Executive Director, she has effectively fostered diverse partnerships with state agencies, municipal governments, industry, agricultural groups and community groups to advance clean energy solutions.

### **C. Lance Allen**

Manager, Waste Management

### **Warren Cook**

Manager, Oregon Department of Energy

### **Larry Crist**

Field Supervisor, U.S. Fish & Wildlife Services

### **John Harja**

Senior Policy Analyst, Utah Public Lands

### **Tiffany James**

Vice President, Magnum Energy

### **GJ LaBonty**

Manager, Utah Transit Authority

### **Lance Lehnhof**

Vice President, Red Leaf Resources

### **Dr. Harold McFarlane**

Director, Idaho National Laboratory

### **David Peterson**

Nissan

### **Christopher Wagner**

Program Manager, National Association of State Energy Officials

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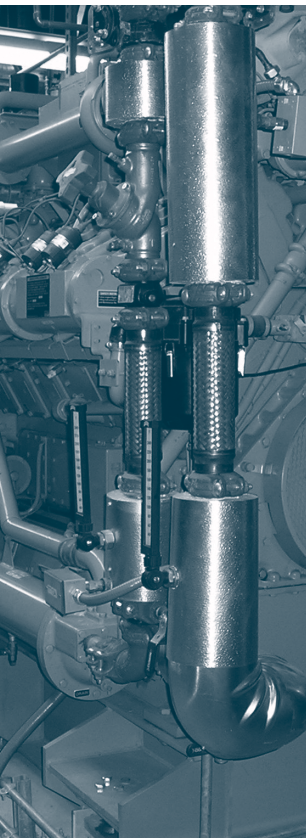
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